

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of	: METHOD OF RESISTING CORROSION IN
Paul W. Brown	: METAL REINFORCING ELEMENTS
Serial Number 10/817,605	: CONTAINED IN CONCRETE AND RELATED
	: COMPOUNDS AND STRUCTURES
	:
U.S. Patent No. 7,081,156	: Examiner: Paul Marcantoni
	:
Filing Date: April 2, 2004	: Art Unit: 1755
	:
	: Attorney Docket Number 287122-00001-2-1

REQUEST FOR CERTIFICATE OF CORRECTION

Eckert Seamans Cherin & Mellott, LLC
U.S. Steel Tower
600 Grant Street, 44th Floor
Pittsburgh, Pennsylvania 15219
December 8, 2006

Attn: Certificate of Corrections Branch
Commissioner for Patents
P.O. Box 1450
Alexandria, Virginia 22313-1450

Sir:

In comparing the above-identified original patent document with the original papers filed in the Patent & Trademark Office, we have noted eleven (92) Patent & Trademark Office printer errors, which are cited on the attached Forms PTO/SB/44.

It is respectfully requested that a Certificate of Correction be issued to correct these errors in the above-identified patent at an early date.

Respectfully submitted,



Arnold B. Silverman
Registration No. 22,614
Attorney for Applicant

(412) 566-2077
E-mail: ipmail@eckertseamans.com

UNITED STATES PATENT AND TRADEMARK OFFICE CERTIFICATE OF CORRECTION

Page 1 of 10

PATENT NO. : 7,081,156
APPLICATION NO.: 10/817,605
ISSUE DATE : July 25, 2006
INVENTOR(S) : Paul W. Brown

It is certified that an error appears or errors appear in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Column 3, lines 8-9, "3CaO.Al₂O₃.Ca(NO₂)₂.nH₂O" should read --3CaO*Al₂O₃*Ca(NO₂)₂*nH₂O--

Column 3, line 9, "3CaO.Al₂O₃.Ca(NO₃)₂.nH₂O" should read --3CaO*Al₂O₃*Ca(NO₃)₂*nH₂O--

Column 3, line 10, "3CaO.Fe₂O₃.Ca(NO₂)₂.nH₂O" should read --3CaO*Fe₂O₃*Ca(NO₂)₂*nH₂O--

Column 3, lines 10-11, "3CaO.Fe₂O₃.Ca(NO₃)₂.nH₂O" should read --3CaO*Fe₂O₃*Ca(NO₃)₂*nH₂O--

Column 3, line 17, "3Me(II)O.R₂O₃.Me(II)(anion)₂.nH₂O" should read --
3Me(II)O*R₂O₃*Me(II)(anion)₂*nH₂O--

Column 3, line 22, "Me(II)O.R₂O₃.Me(II)(anion).nH₂O" should read --
Me(II)O*R₂O₃*Me(II)(anion) *nH₂O--

Column 6, lines 15-16, "3CaO.Al₂O₃.Ca(NO₂)₂.nH₂O+2Cl⁻ ⇌ 3CaO.Al₂O₃.CaCl₂.nH₂O+2NO₂"
should read --3CaO*Al₂O₃*Ca(NO₂)₂*nH₂O+2Cl⁻ ⇌ 3CaO*Al₂O₃*CaCl₂*nH₂O+2NO₂--

Column 6, line 17, "3CaO.Al₂O₃.Ca(NO₂)₂.nH₂O" should read --3CaO*Al₂O₃*Ca(NO₂)₂*nH₂O--

Column 6, line 23, "3CaO.Al₂O₃.Ca(NO₂)₂.nH₂O" should read --3CaO*Al₂O₃*Ca(NO₂)₂*nH₂O--

Column 6, line 41, "(3CaO.Al₂O₃.Ca(NO₂)₂.nH₂O)" should read --(3CaO*Al₂O₃*Ca(NO₂)₂*nH₂O)--

Column 6, line 43, "3CaO.Al₂O₃.CaCl₂.10H₂O" should read --3CaO*Al₂O₃*CaCl₂*10H₂O--

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INVENTOR(S) : Paul W. Brown

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Column 6, lines 53-54, "3CaO.Fe₂O₃.Ca(NO₂)₂.nH₂O+2Cl \rightleftharpoons 3CaO.Fe₂O₃.CaCl₂.nH₂O+2NO₂" should read --3CaO*Fe₂O₃*Ca(NO₂)₂*nH₂O+2Cl \rightleftharpoons 3CaO*Fe₂O₃*CaCl₂*nH₂O+2NO₂--

Column 6, line 56, "3CaO.Al₂O₃.Ca(NO₂)₂.nH₂O" should read --3CaO*Al₂O₃*Ca(NO₂)₂*nH₂O--

Column 7, line 2, "3CaO.Fe₂O₃.Ca(NO₂)₂.nH₂O" should read --3CaO*Fe₂O₃*Ca(NO₂)₂*nH₂O--

Column 7, line 3, "3CaO.Al₂O₃.Ca(NO₃)₂.nH₂O" should read --3CaO*Al₂O₃*Ca(NO₃)₂*nH₂O--

Column 7, line 4, "3CaO.Fe₂O₃.Ca(NO₃)₂.nH₂O" should read --3CaO*Fe₂O₃*Ca(NO₃)₂*nH₂O--

Column 7, line 5, "3Me(II)O.R₂O₃.Me(II)(anion)₂.nH₂O" should read --
3Me(II)O*R₂O₃*Me(II)(anion)₂*nH₂O--

Column 7, line 12, "3CaO.Fe₂O₃.Ca(NO₃)₂.nH₂O" should read --3CaO*Fe₂O₃*Ca(NO₃)₂*nH₂O--

Column 7, lines 12-13, "3CaO.Al₂O₃.Ca(NO₂)₂.nH₂O" should read --3CaO*Al₂O₃*Ca(NO₂)₂*nH₂O--

Column 7, lines 14-15, "3Me(II)O.R₂O.Me(II)(anion).nH₂O" should read --
3Me(II)O*R₂O*Me(II)(anion)*nH₂O--

Column 7, line 27, "3CaO.Al₂O₃.Ca(NO₂)₂.nH₂O" should read --3CaO*Al₂O₃*Ca(NO₂)₂*nH₂O--

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Column 7, lines 27-28, "3CaO.Fe₂O₃.Ca(NO₃)₂.nH₂O" should read --3CaO•Fe₂O₃•Ca(NO₃)₂•nH₂O--

Column 7, line 39, "3Me(II)O.(R,R')₂O₃.Me(II)(anion)₂.nH₂O," should read --3Me(II)O•(R,R')₂O₃•Me(II)(anion)₂•nH₂O--

Column 7, lines 47-48, "3Me(II)O.(Al,Fe)₂O₃.Me(II)(anion)₂.nH₂O" should read --3Me(II)O•(Al,Fe)₂O₃•Me(II)(anion)₂•nH₂O--

Column 7, line 49, "Ca₂(Al,Fe)(OH)₆(anion).nH₂O" should read -- Ca₂(Al,Fe)(OH)₆(anion) •nH₂O--

Column 8, line 4, "3CaO.Al₂O₃" should read --3CaO•Al₂O₃--

Column 8, line 29, "3Me(II).(R,R')₂O₃.Me(II)(anion)₂.nH₂O," should read --3Me(II)•(R,R')₂O₃•Me(II)(anion)₂•nH₂O--

Column 8, line 60, "3Me(II)O.(R,R')₂O₃.Me(II)(anion)₂.nH₂O+2Cl⁻
 ⇌ 3Me(II)O.(R,R')₂O₃.Me(II)Cl₂.nH₂O+2(anion)⁻" should read --3Me(II)O•
 (R,R')₂O₃•Me(II)(anion)₂•nH₂O+2Cl⁻⇌ 3Me(II)O•(R,R')₂O₃•Me(II)Cl₂•nH₂O+2(anion)⁻--

Column 8, line 63, "NO₂³¹" should read --NO₂⁻--

Column 9, lines 15-16, "3Me(II)O.Al₂O₃.Me(II)(anion)₂.nH₂O" should read --
 3Me(II)O•Al₂O₃•Me(II)(anion)₂•nH₂O--

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Column 9, line 17, "3Me(II)O.Fe₂O₃.Me(II)(anion)₂.nH₂O" should read --
3Me(II)O•Fe₂O₃•Me(II)(anion)₂•nH₂O--

Column 9, lines 18-19, "3Me(II)O.(Fe, Al)₂O₃.Me(II)(anion)₂.nH₂O" should read --3Me(II)O•(Fe,
Al)₂O₃•Me(II)(anion)₂•nH₂O--

Column 9, line 25, "3CaO.Al₂O₃.Ca(NO₃)₂.nH₂O" should read --3CaO•Al₂O₃•Ca(NO₃)₂•nH₂O--

Column 9, line 46, "3CaO.Fe₂O₃.Ca(NO₃)₂.nH₂O" should read --3CaO•Fe₂O₃•Ca(NO₃)₂•nH₂O--

Column 9, line 47, "3CaO.Fe₂O₃.Ca(NO₃)₂.nH₂O" should read --3CaO•Fe₂O₃•Ca(NO₃)₂•nH₂O--

Column 9, line 48, "2CaO.Fe₂O₃" should read --3CaO•Fe₂O₃--

Column 9, line 50, "2CaO.Fe₂O₃" should read --3CaO•Fe₂O₃--

Column 9, line 53, "2CaO.Fe₂O₃" should read --3CaO•Fe₂O₃--

Column 9, line 57, "2CaO.Fe₂O₃" should read --3CaO•Fe₂O₃--

Column 9, line 57, "2CaO.Fe₂O₃" should read --3CaO•Fe₂O₃--

Column 9, line 61, "3CaO.Al₂O₃" should read --3CaO•Al₂O₃--

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INVENTOR(S) : Paul W. Brown

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Column 9, line 61, "CaO.Al₂O₃" should read --3CaO•Al₂O₃--

Column 9, line 61, "2CaO.Fe₂O₃" should read --2CaO•Fe₂O₃--

Column 9, lines 63-64, "3 CaO.(Fe_{1.0}Al_{1.0})O₃.CaNO₃.nH₂O" should read -- CaO•
(Fe_{1.0}Al_{1.0})O₃•CaNO₃•nH₂O--

Column 9, line 65, "2CaO.Fe₂O₃" should read --2CaO•Fe₂O₃--

Column 9, line 65, "3CaO.Al₂O₃" should read --2CaO•Al₂O₃--

Column 9, line 65, "CaO.Al₂O₃" should read --CaO•Al₂O₃--

Column 10, line 16, "3Me(II)O.R₂O₃.Me(II)(anion)₂.nH₂O" should read --
3Me(II)O•R₂O₃•Me(II)(anion)₂•nH₂O--

Column 10, line 34, "3Me(II)O.(R,R')₂O₃.Me(II)(anion)₂.nH₂O" should read --3Me(II)O•
(R,R')₂O₃•Me(II)(anion)₂•nH₂O--

Column 10, line 64, "CaO.Al₂O₃.Ca(NO₃)₂.nH₂O" should read --CaO•Al₂O₃•Ca(NO₃)₂•nH₂O--

Column 10, line 66, "CaO.Al₂O₃" should read --CaO•Al₂O₃--

Column 11, line 22, "3CaO.Al₂O₃" should read --2CaO•Al₂O₃--

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INVENTOR(S) : Paul W. Brown

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Column 11, line 22, "Ca(NO₂)₂.nH₂O" should read -- Ca(NO₂)₂*nH₂O--

Column 11, line 31, "CaO.Al₂O₃" should read --CaO*Al₂O₃--

Column 11, line 39, "3CaO.Al₂O₃.Ca(NO₃)₂.nH₂O" should read --3CaO*Al₂O₃*Ca(NO₃)₂*nH₂O--

Column 11, line 43, "3CaO.Al₂O₃" should read --3CaO*Al₂O₃--

Column 11, line 54, "CaO.Al₂O₃" should read --CaO*Al₂O₃--

Column 12, line 5, "3CaO.Al₂O₃.Ca(NO₃)₂.nH₂O" should read --3CaO*Al₂O₃*Ca(NO₃)₂*nH₂O--

Column 12, line 11, "3CaO.Fe₂O₃.CaCl₂.nH₂O" should read --3CaO*Fe₂O₃*CaCl₂*nH₂O--

Column 12, lines 12-13, "3CaO.Fe₂O₃.Ca(NO₂)₂.nH₂O" should read
--3CaO*Fe₂O₃*Ca(NO₂)₂*nH₂O --

Column 12, line 13, "3CaO.Fe₂O₃.Ca(NO₃)₂.nH₂O" should read
--3CaO*Fe₂O₃*Ca(NO₃)₂*nH₂O --

Column 12, line 15, "(3 CaO.Al₂O₃.CaCl₂.10H₂O)" should read --(3 CaO*Al₂O₃*CaCl₂*10H₂O)--

Column 12, lines 16-17, "3CaO.Fe₂O₃.Ca(NO₂)₂.nH₂O and 3CaO.Fe₂O₃.Ca(NO₃)₂.nH₂O"

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Should read -- $3\text{CaO}\cdot\text{Fe}_2\text{O}_3\cdot\text{Ca}(\text{NO}_3)_2\cdot n\text{H}_2\text{O}$ and $3\text{CaO}\cdot\text{Fe}_2\text{O}_3\cdot\text{Ca}(\text{NO}_3)_2\cdot n\text{H}_2\text{O}$ --
Column 12, line 18, "2CaO.Fe₂O₃" should read -- $2\text{CaO}\cdot\text{Fe}_2\text{O}_3$ --

Column 12, line 20, "2CaO.Fe₂O₃" should read -- $2\text{CaO}\cdot\text{Fe}_2\text{O}_3$ --

Column 12, line 23, "2CaO.Fe₂O₃" should read -- $2\text{CaO}\cdot\text{Fe}_2\text{O}_3$ --

Column 12, line 27, "2CaO.Fe₂O₃" should read -- $2\text{CaO}\cdot\text{Fe}_2\text{O}_3$ --

Column 12, line 28, "2CaO.Fe₂O₃" should read -- $2\text{CaO}\cdot\text{Fe}_2\text{O}_3$ --

Column 12, line 34, " $3\text{CaO}\cdot\text{Fe}_2\text{O}_3\cdot\text{Ca}(\text{NO}_3)_2\cdot n\text{H}_2\text{O}$ " should read
-- $3\text{CaO}\cdot\text{Fe}_2\text{O}_3\cdot\text{Ca}(\text{NO}_3)_2\cdot n\text{H}_2\text{O}$ --

Column 12, line 37, "2CaO.Fe₂O₃" should read -- $2\text{CaO}\cdot\text{Fe}_2\text{O}_3$ --

Column 12, lines 44-45, " $3\text{Me}(\text{II})\text{O}(\text{R}_1\text{R}_2)_2\text{O}_3(\text{Me}(\text{II})(\text{anion})_2\cdot n\text{H}_2\text{O})$ " should read -- $3\text{Me}(\text{II})\text{O}(\text{R}_1\text{R}_2)_2\text{O}_3(\text{Me}(\text{II})(\text{anion})_2\cdot n\text{H}_2\text{O})$ --

Column 14, lines 9-10, " $3\text{CaO}\cdot\text{Al}_2\text{O}_3\cdot\text{Ca}(\text{NO}_3)_2\cdot n\text{H}_2\text{O}$ " should read
-- $3\text{CaO}\cdot\text{Al}_2\text{O}_3\cdot\text{Ca}(\text{NO}_3)_2\cdot n\text{H}_2\text{O}$ --

Column 14, lines 19-20, " $3\text{CaO}\cdot\text{Al}_2\text{O}_3\cdot\text{Ca}(\text{NO}_3)_2\cdot n\text{H}_2\text{O}$ " should read
-- $3\text{CaO}\cdot\text{Al}_2\text{O}_3\cdot\text{Ca}(\text{NO}_3)_2\cdot n\text{H}_2\text{O}$ --

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INVENTOR(S) : Paul W. Brown

It is certified that an error appears or errors appear in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Column 15, lines 10-11, " $2\text{NaAlO}_4 + 3\text{Ca}(\text{OH})_2 + \text{Ca}(\text{NO}_2)_2 \rightarrow 3\text{CaO} \cdot \text{Al}_2\text{O}_3 \cdot \text{Ca}(\text{NO}_2)_2 \cdot n\text{H}_2\text{O} + 2\text{NaOH}$ " should read $--2\text{NaAlO}_4 + 3\text{Ca}(\text{OH})_2 + \text{Ca}(\text{NO}_2)_2 \rightarrow 3\text{CaO} \cdot \text{Al}_2\text{O}_3 \cdot \text{Ca}(\text{NO}_2)_2 \cdot n\text{H}_2\text{O} + 2\text{NaOH}--$

Column 15, lines 15-16, " $2\text{NaAlO}_4 + 4\text{Ca}(\text{OH})_2 + 2\text{NaNO}_2 \rightarrow 3\text{CaO} \cdot \text{Al}_2\text{O}_3 \cdot \text{Ca}(\text{NO}_2)_2 \cdot n\text{H}_2\text{O} + 4\text{NaOH}$ " should read $--2\text{NaAlO}_4 + 4\text{Ca}(\text{OH})_2 + 2\text{NaNO}_2 \rightarrow 3\text{CaO} \cdot \text{Al}_2\text{O}_3 \cdot \text{Ca}(\text{NO}_2)_2 \cdot n\text{H}_2\text{O} + 4\text{NaOH}--$

Column 15, line 20, " $(\text{CaO} \cdot \text{Al}_2\text{O}_3)$ " should read $--(\text{CaO} \cdot \text{Al}_2\text{O}_3)--$

Column 15, line 2, " $(3\text{CaO} \cdot \text{Al}_2\text{O}_3)$ " should read $--(3\text{CaO} \cdot \text{Al}_2\text{O}_3)--$

Column 15, line 29, " $\text{CaO} \cdot 2\text{Al}_2\text{O}_3$ " should read $--\text{CaO} \cdot 2\text{Al}_2\text{O}_3--$

Column 15, line 29, " $\text{CaO} \cdot 6\text{Al}_2\text{O}_3$ " should read $--\text{CaO} \cdot 6\text{Al}_2\text{O}_3--$

Column 15, line 39, " $(5\text{Al}_2\text{O}_3 \cdot \text{H}_2\text{O})$ " should read $--(5\text{Al}_2\text{O}_3 \cdot \text{H}_2\text{O})--$

Column 15, line 43, " $\text{CaO} \cdot \text{Al}_2\text{O}_3$ " should read $--\text{CaO} \cdot \text{Al}_2\text{O}_3--$

Column 15, line 44, " $3\text{CaO} \cdot \text{Al}_2\text{O}_3$ " should read $--3\text{CaO} \cdot \text{Al}_2\text{O}_3--$

Column 15, lines 48-49, " $\text{CaO} \cdot \text{Al}_2\text{O}_3 + 3\text{Ca}(\text{OH})_2 + n\text{H}_2\text{O} \rightarrow 3\text{CaO} \cdot \text{Al}_2\text{O}_3 \cdot \text{Ca}(\text{OH})_2 \cdot n\text{H}_2\text{O}$ " should read $--\text{CaO} \cdot \text{Al}_2\text{O}_3 + 3\text{Ca}(\text{OH})_2 + n\text{H}_2\text{O} \rightarrow 3\text{CaO} \cdot \text{Al}_2\text{O}_3 \cdot \text{Ca}(\text{OH})_2 \cdot n\text{H}_2\text{O}--$

Column 15, lines 52-53, " $3\text{CaO} \cdot \text{Al}_2\text{O}_3 \cdot \text{Ca}(\text{Cl})_2 \cdot n\text{H}_2\text{O}$ " should read $--3\text{CaO} \cdot \text{Al}_2\text{O}_3 \cdot \text{Ca}(\text{Cl})_2 \cdot n\text{H}_2\text{O}--$

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CERTIFICATE OF CORRECTION

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PATENT NO. : 7,081,156

APPLICATION NO. : 10/817,605

ISSUE DATE : July 25, 2006

INVENTOR(S) : Paul W. Brown

It is certified that an error appears or errors appear in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Column 16, line 12, " $3\text{CaO} \cdot \text{Al}_2\text{O}_3 \cdot \text{Ca}(\text{NO}_2)_2 \cdot n\text{H}_2\text{O}$ " should read
-- $3\text{CaO} \cdot \text{Al}_2\text{O}_3 \cdot \text{Ca}(\text{NO}_2)_2 \cdot n\text{H}_2\text{O}$ --

Column 16, line 34, " $3\text{CaO} \cdot \text{Al}_2\text{O}_3 \cdot \text{Ca}(\text{NO}_2)_2 \cdot n\text{H}_2\text{O}$ " should read
-- $3\text{CaO} \cdot \text{Al}_2\text{O}_3 \cdot \text{Ca}(\text{NO}_2)_2 \cdot n\text{H}_2\text{O}$ --

Column 17, line 12, " $3\text{CaO} \cdot (\text{Fe}, \text{Al})_2\text{O}_3 \cdot \text{Ca}(\text{NO}_2)_2 \cdot n\text{H}_2\text{O}$ " should read -- $3\text{CaO} \cdot$
 $(\text{Fe}, \text{Al})_2\text{O}_3 \cdot \text{Ca}(\text{NO}_2)_2 \cdot n\text{H}_2\text{O}$ --

Column 17, lines 22-23, " $3\text{CaO} \cdot (\text{Fe}, \text{Al})_2\text{O}_3 \cdot \text{Ca}(\text{NO}_2)_2 \cdot n\text{H}_2\text{O}$ " should read -- $3\text{CaO} \cdot$
 $(\text{Fe}, \text{Al})_2\text{O}_3 \cdot \text{Ca}(\text{NO}_2)_2 \cdot n\text{H}_2\text{O}$ --

Claim 1, column 17, line 41, " $3\text{Me}(\text{II})\text{O} \cdot (\text{R}, \text{R}')_2\text{O}_3 \cdot \text{Me}(\text{II})(\text{anion})_2 \cdot n\text{H}_2\text{O}$," should read -- $3\text{Me}(\text{II})\text{O} \cdot$
 $(\text{R}, \text{R}')_2\text{O}_3 \cdot \text{Me}(\text{II})(\text{anion})_2 \cdot n\text{H}_2\text{O}$ --

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CERTIFICATE OF CORRECTION

PATENT NO. : 7,081,156
APPLICATION NO.: 10/817,605
ISSUE DATE : July 25, 2006
INVENTOR(S) : Paul W. Brown

Page 10 of 10

It is certified that an error appears or errors appear in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Claim 7, Column 18, line 5, "The method of claim 1 wherein the reaction" should read -- The method of claim 1 wherein the following reaction--

Claim 7, column 18, lines 9-10, " $3\text{Me(II)O} \cdot (\text{R}, \text{R}')_2\text{O}_3 \cdot \text{Me(II)(NO}_2)_2 \cdot n\text{H}_2\text{O} + 2\text{Cl} \rightarrow 3\text{Me(II)O} \cdot (\text{R}, \text{R}')_2\text{O}_3 \cdot \text{Me(II)Cl}_2 \cdot n\text{H}_2\text{O} + 2\text{NO}_2$ " should read -- $3\text{Me(II)O} \cdot (\text{R}, \text{R}')_2\text{O}_3 \cdot \text{Me(II)(NO}_2)_2 \cdot n\text{H}_2\text{O} + 2\text{Cl} \rightarrow 3\text{Me(II)O} \cdot (\text{R}, \text{R}')_2\text{O}_3 \cdot \text{Me(II)Cl}_2 \cdot n\text{H}_2\text{O} + 2\text{NO}_2$ --

Claim 8, column 18, line 17, " $3\text{Me(II)O} \cdot (\text{R}, \text{R}')_2\text{O}_3 \cdot \text{Me(II)(anion)}_2 \cdot n\text{H}_2\text{O}$," should read -- $3\text{Me(II)O} \cdot (\text{R}, \text{R}')_2\text{O}_3 \cdot \text{Me(II)(anion)}_2 \cdot n\text{H}_2\text{O}$ --

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